

FIG.1

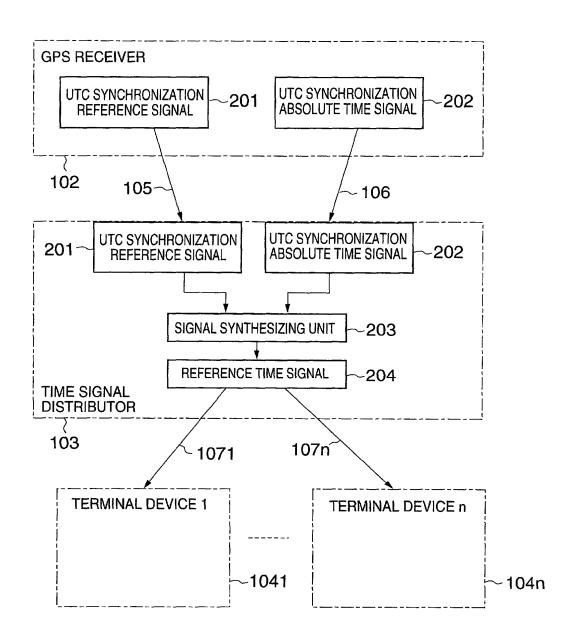


FIG.2

103 TIME SIGNAL DISTRIBUTOR 203 SIGNAL SYNTHESIZING UNIT 201 PERIOD P ---**UTC SYNCHRONIZATION** REFERENCE SIGNAL 202 SERIAL TIME SIGNAL **UTC SYNCHRONIZATION** ABSOLUTE TIME SIGNAL 204 REFERENCE TIME SIGNAL SERIAL TIME SIGNAL **UTC SYNCHRONIZATION** REFERENCE SIGNAL

FIG.3

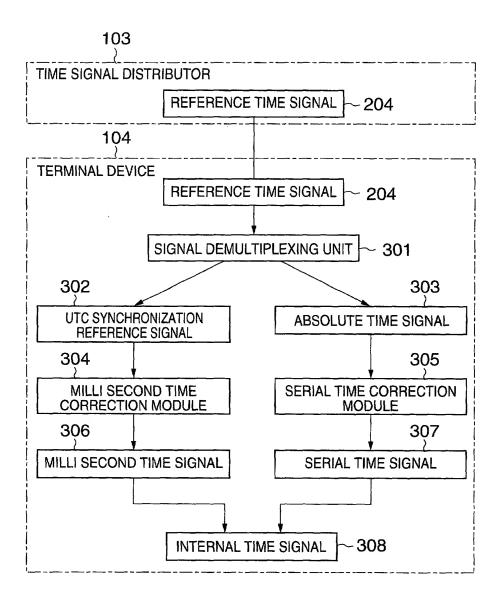


FIG.4

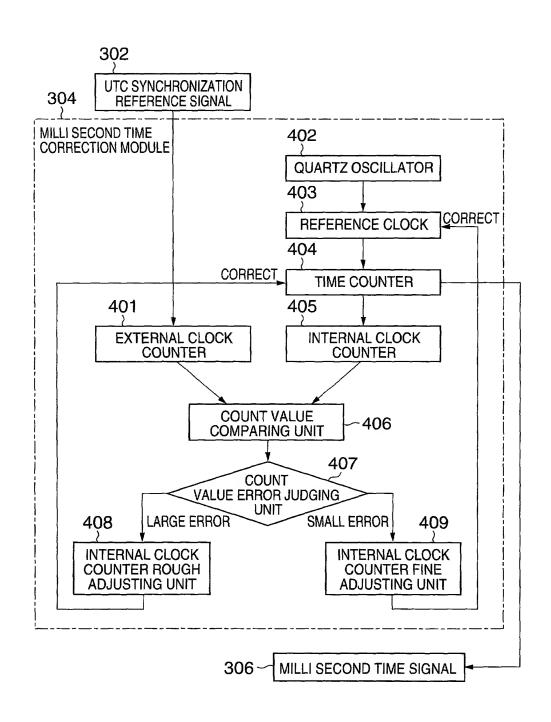


FIG.5

102 **GPS RECEIVER UTC SYNCHRONIZATION** UTC SYNCHRONIZATION 201 202 ABSOLUTE TIME SIGNAL REFERENCE SIGNAL 103 TIME SIGNAL DISTRIBUTOR 201-UTC SYNCHRONIZATION ABSOLUTE TIME SIGNAL ~202 UTC SYNCHRONIZATION REFERENCE SIGNAL 504 502 INTERNAL INTERNAL REFERENCE **QUARTZ** ABSOLUTE TIME SIGNAL GENERATOR **OSCILLATOR** SIGNALGENERATOR 505 501 INTERNAL REFERENCE INTERNAL ABSOLUTE **SIGNAL NORMAL** TIME SIGNAL **RECEIVING** 503 **ABNORMAL** RECEIVING

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FIG.6

SIGNAL SYNTHESIZING UNIT

REFERENCE TIME SIGNAL

~203

~204